The re-assessment studies of hydro-electric potential of the country, completed by the Central Electricity Authority in 1987, have placed the exploitable hydro power potential at 84,044 MW at 60% load factor which will result in an installed capacity of about 1,50,000 MW on the basis of probable average load factor.

In addition, curently the estimated renewable energy potential is reported to be over 84,700 MW.

For optimum utilization of energy resources in the power sector, following action have been taken:

- Coal to remain the main stay in the energy fuel mix. Out of the projects aggregating to over 78,577 MW identified for the Eleventh Plan, over 51,000 MW is coal based.
- Nuclear capacity would increase from present 4120 MW to 7280 MW by the end of Eleventh Plan.
- Shelf of thermal projects aggregating to over 1,00,000 MW has been prepared for the taking up in the future.
- 50,000 MW hydro initiative has been launched for coordinated development of hydro potential.
- During Eleventh Plan, capacity addition to the tune of 14,000 MW through renewable sources is proposed.

Review of power projects

432. SHRI DARA SINGH: Will the Minister of POWER be pleased to state:

(a) whether some of the power projects in the country have not performed properly during the last five years;

(b) if so, whether Government proposes to review their performance and being forward some amendments particularly in the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Accelerated Power Development and Reforms Programme (APDRP); and

(c) if so, the details thereof?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) The performance of power plants is accessed/gauged in terms of actual generation *vis-a-vis* their generation target. The generation tagets are fixed for the power station on a year to year basis, keeping in view their installed capacity, age of the units, past performance, planned outages, likely availability of water/fuel (both quantity and quality) etc. While availability of water during monsoon and non-monsoon season as well as irrigation requirements influence performance of hydro power station, the quality and availability of fuel have a bearing on the performance of thermal power stations. Therefore, the actual generation achieved by some power plants including old power plants in the state sector is at variation with the target.

(b) and (c) Yes, Sir, the performance of power stations is being reviewed by competent authorities.

Regarding Rajiv Gandhi Grameen Vidyutikaran Yojana, Government of India has approved the continuation of the scheme in XI Plan for attaining the goal of providing access to electricity to all households, electrification of about 1.15 lakh un-electrified villages and electricity connection to 2.34 crore BPL households by 2009 with a capital subsidy of Rs. 28,000 crore.

APDRP is also under reivew of Ministry of Power. The focus of restructured APDRP is proposed to be on actual, demonstrable perfomance in terms of loss reduction.

Power requirement in Maharashtra

433. SHRI DARA SINGH: Will the Minister of POWER be pleased to state:

(a) the present consumption of electricity in Maharashtra and how much electricity would be made available during the next one year by Government, to fulfill the requirement of electricity of the State;

(b) the details of locations and sources of its generation and how many districts and villages would enjoy the benefit of electricity in the State;

(c) whether Government is planning to establish power generation projects, as well as producing more equipments/machineries, for the purpose of power generation companies in Maharashtra particularly in Mumbai; and

(d) if so, the details thereof and by when it would be set up?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) During the period April, 2007 to January, 2008, the consumption (availablity) of electricity in Maharashtra was 78,277 MU. According to the projections in the 17th Electric Power Survey Report prepared by the Central Electricity Authority (CEA), an electrical energy requirement of Maharashtra has been assessed at 113,878 MU for the next year. The availability of power for Maharashtra, based on the proposed generation target for the year 2008-09 is expected to be 62194 MU from its own generation and 25218 MU from the Central generating stations.

(b) A list of generating stations location-wise in Maharashtra is given at Statement-I (*See* below). According the 2001 Census of India, there are 41,095 inhabited villages in the State of Maharashtra, out of which 36077 (87.8%) have been electrified by the end of December, 2007.

(c) and (d) A capacity addition programme of 78,577 MW has been planned for the 11th Plan on all India basis and the list of projects falling in the State of Maharashtra is given at Statement-II (*See* below).

For the purpose of power generation, the leading power equipment manufacturer Bharat Heavy Electricals Ltd. (BHEL) has intimated that it envisages to fabricate power house structures, parts of boiler structures and ducts at MAHAGENCO sites where projects are being executed by BHEL.